

TENT COOPERATION TRE /

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

GILL JENNINGS & EVERY
Broadgate House
7 Eldon Street
London EC2M 7LH
ROYAUME-UNI

Date of mailing (day/month/year) 15 March 2001 (15.03.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference REP06049WO	
International application No. PCT/GB00/00636	International filing date (day/month/year) 23 February 2000 (23.02.00)

1. The following indications appeared on record concerning: <input checked="" type="checkbox"/> the applicant <input checked="" type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative		
Name and Address PRICE, Jack ReNeuron Limited Europoint Centre 5-11 Lavington Street London SE1 0NZ United Kingdom	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence		
Name and Address PRICE, Jack 10 Nugent Road Surrey Research Park Guildford Surrey GU2 7AF United Kingdom	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to: <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the elected Offices concerned <input checked="" type="checkbox"/> the International Preliminary Examining Authority <input type="checkbox"/> other:		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Maria Victoria CORTIELLO Telephone No.: (41-22) 338.83.38
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1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address

RENEURON LIMITED
12 St. James's Square
London SW1Y 4RB
United Kingdom

State of Nationality

GB

State of Residence

GB

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

RENEURON LIMITED
10 Nugent Road
Surrey Research Park
Guildford
Surrey
GU2 7AF
United Kingdom

State of Nationality

GB

State of Residence

GB

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Maria Victoria CORTIELLO Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C. 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 23 October 2000 (23.10.00)	
International application No. PCT/GB00/00636	Applicant's or agent's file reference REP06049WO
International filing date (day/month/year) 23 February 2000 (23.02.00)	Priority date (day/month/year) 24 February 1999 (24.02.99)
Applicant PRICE, Jack	

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

13 September 2000 (13.09.00)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer R. Chrem
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference REP06049W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 00/ 00636	International filing date (day/month/year) 23/02/2000	(Earliest) Priority Date (day/month/year) 24/02/1999
Applicant RENEURON LIMITED et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 8,9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Although claims 8 and 9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12N 5/00	A2	(11) International Publication Number: WO 00/50568 (43) International Publication Date: 31 August 2000 (31.08.00)
(21) International Application Number: PCT/GB00/00636 (22) International Filing Date: 23 February 2000 (23.02.00) (30) Priority Data: 9904281.4 24 February 1999 (24.02.99) GB (71) Applicant (for all designated States except US): RENEURON LIMITED [GB/GB]; 12 St. James's Square, London SW1Y 4RB (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): PRICE, Jack [GB/GB]; ReNeuron Limited, Europoint Centre, 5-11 Lavington Street, London SE1 0NZ (GB). (74) Agent: GILL JENNINGS & EVERY; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: TRANSPLANTATION OF HAEMATOPOIETIC CELLS		
(57) Abstract Transplantation of haematopoietic stem cells is proposed for the treatment of a damaged brain. Intracerebral transplantation of haematopoietic stem cells may repair function and may be suitable for the treatment of Alzheimer's disease, Parkinson's disease and Creutzfeld-Jacob disease.		

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EE	Estonia						

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
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(30) Priority Data:
9904281.4 24 February 1999 (24.02.1999) GB

(71) Applicant (for all designated States except US): **RENEU-
RON LIMITED** [GB/GB]; 12 St. James's Square, London
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(72) Inventor; and

(75) Inventor/Applicant (for US only): **PRICE, Jack**
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Lavington Street, London SE1 0NZ (GB).

(74) Agent: **GILL JENNINGS & EVERY**; Broadgate House,
7 Eldon Street, London EC2M 7LH (GB).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ,
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
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RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

(88) Date of publication of the international search report:
7 December 2000

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: TRANSPLANTATION OF HAEMATOPOIETIC CELLS

(57) Abstract: Transplantation of haematopoietic stem cells is proposed for the treatment of a damaged brain. Intracerebral trans-
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disease and Creutzfeld-Jacob disease.

WO 00/50568 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/00636

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N5/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 817 773 A (WILSON ELAINE LYNETTE ET AL) 6 October 1998 (1998-10-06)	1-3
Y	column 6, line 24 - line 37; claims 1,21-24	4-7
	column 13, line 33 -column 14, line 20	
Y	WO 97 10329 A (INST OF PSYCHIATRY ;SINDEN JOHN (GB); GRAY JEFFREY ALAN (GB); HODG) 20 March 1997 (1997-03-20)	4-6
A	page 1, paragraph 1 - paragraph 4; claim 1	1
	page 8, paragraph 4; claim 5	
	page 2, paragraph 1	
	page 2, paragraph 7 - paragraph 8	
	page 5, paragraph 2	
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

25 August 2000

Date of mailing of the international search report

21/09/2000

Name and mailing address of the ISA

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Authorized officer

Charles, D

INTERNATIONAL SEARCH REPORT

Inter. Application No.

PCT/GB 00/00636

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	J.A. ALLAY ET AL.: "LACZ AND INTERLEUKIN-3 EXPRESSION IN VIVO AFTER RETROVIRAL TRANSDUCTION OF MARROW-DERIVED HUMAN OSTEOGENIC MESENCHYMAL PROGENITORS" HUMAN GENE THERAPY, vol. 8, no. 12, 10 August 1997 (1997-08-10), pages 1417-1427, XP002145778 abstract	7
X	WO 93 18137 A (SYSTEMIX INC) 16 September 1993 (1993-09-16) cited in the application page 1, line 3 - line 4 page 4, line 16 - line 20 page 13, line 3 - line 18	1-3
X,P	M. CHOPP ET AL.: "ADULT BONE MARROW TRANSPLANTATION FOR TREATMENT OF STROKE IN ADULT MICE" SOCIETY FOR NEUROSCIENCE, vol. 25, 1999, page 528.2 XP000900788 cited in the application abstract	1,2,8
A	WO 98 07841 A (UNIV MASSACHUSETTS) 26 February 1998 (1998-02-26) page 1, line 4 - line 18; claims 16-30 page 5, line 26 -page 6, line 10 page 8, line 2 - line 14 page 12, line 6 - line 16 page 20, line 19 -page 21, line 11 page 21, line 27 -page 22, line 19	1-9
A	HODGES, HELEN (1) ET AL: "Cognitive deficits induced by global cerebral ischaemia: Prospects for transplant therapy." PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, (1997) VOL. 56, NO. 4, PP. 763-780., vol. 56, no. 4, 1997, pages 763-780, XP000857876 cited in the application page 771, column 1, paragraph 1 -page 776, column 1, paragraph 1	1-9
A	WO 92 11355 A (UNIV MICHIGAN) 9 July 1992 (1992-07-09) cited in the application page 1, line 10 - line 13; claim 1 page 11, line 24 -page 12, line 18 page 14, line 16 - line 19	1-3

INTERNATIONAL SEARCH REPORT

International Application No. PCT/GB 00 00636

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 8,9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Although claims 8 and 9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/00636

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5817773 A	06-10-1998	US 5612211 A AT 164076 T DE 69129113 D DE 69129113 T EP 0535148 A JP 5509096 T WO 9118620 A	18-03-1997 15-04-1998 23-04-1998 15-10-1998 07-04-1993 16-12-1993 12-12-1991
WO 9710329 A	20-03-1997	AU 711563 B AU 6937596 A CA 2231436 A CN 1193345 A CZ 9800558 A EP 0850298 A HU 9802091 A JP 11513242 T NO 981072 A PL 325646 A SK 30698 A	14-10-1999 01-04-1997 20-03-1997 16-09-1998 17-06-1998 01-07-1998 28-12-1998 16-11-1999 12-05-1998 03-08-1998 11-01-1999
WO 9318137 A	16-09-1993	AU 680406 B AU 3783993 A AU 4369097 A CA 2131368 A EP 0631618 A JP 7504331 T	31-07-1997 05-10-1993 12-02-1998 16-09-1993 04-01-1995 18-05-1995
WO 9807841 A	26-02-1998	AU 4044397 A BR 9711204 A CN 1230989 A EP 0934403 A	06-03-1998 17-08-1999 06-10-1999 11-08-1999
WO 9211355 A	09-07-1992	US 5399493 A AU 687674 B AU 5059296 A AU 665525 B AU 9175091 A CA 2100268 A EP 0575350 A JP 11221074 A JP 6505151 T US 5437994 A US 5635386 A US 5605822 A US 5670147 A US 5670351 A US 5646043 A	21-03-1995 26-02-1998 11-07-1996 11-01-1996 22-07-1992 18-06-1992 29-12-1993 17-08-1999 16-06-1994 01-08-1995 03-06-1997 25-02-1997 23-09-1997 23-09-1997 08-07-1997